

ABSTRACT OF THE DISCLOSURE

5 A differential impulse conveyor having a  
conveyor motor which uses bellows to provide the driving  
force for the conveyor. The conveyor includes a housing  
within which is mounted the conveyor motor. The  
conveyor motor has a pair of bellows, a drive plate and  
a fluid control system. The drive plate is movably  
mounted between the bellows. The conveyor plate is  
mounted to the top end of the drive plate. The fluid  
10 control system includes a main control valve, a pair of  
limit switches, a pair of valves and a flow control  
valve. The fluid control system allows for inflation of  
one bellow at a greater rate than inflation of the other  
bellow.